

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 December 2005 (01.12.2005)

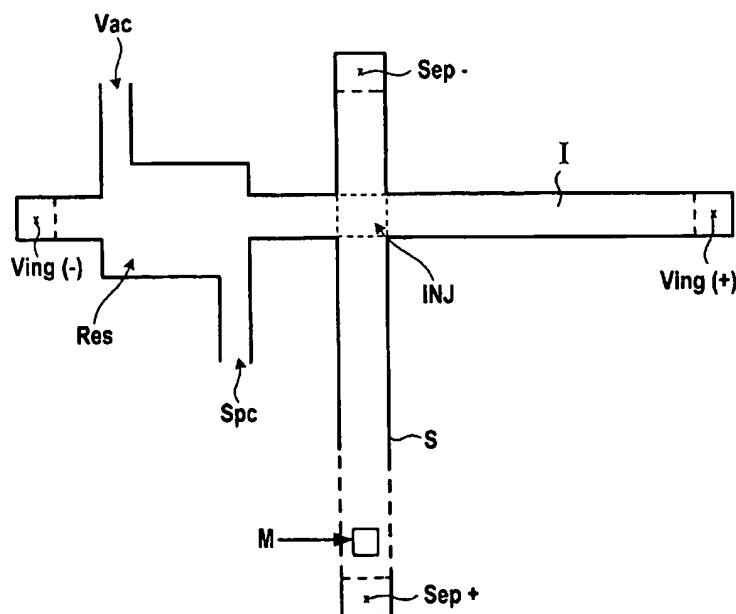
PCT

(10) International Publication Number
WO 2005/114167 A2

- (51) International Patent Classification⁷: **G01N 30/00** (74) Agent: BARTH, Daniel; Herrenberger Str. 130, 71034 Böblingen (DE).
- (21) International Application Number:
PCT/EP2004/053279
- (22) International Filing Date: 6 December 2004 (06.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
04102089.2 13 May 2004 (13.05.2004) EP
- (71) Applicant (for all designated States except US): AGILENT TECHNOLOGIES, INC. [US/US]; 395 Page Mill Road, Palo Alto, California 94306 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): RUEFER, Andreas [DE/DE]; Klauprechtstrasse 21, 76137 Karlsruhe (DE). SEIFRIED, Martin [DE/DE]; Asamweg 13, 76275 Ettlingen (DE). KRATZMEIER, Martin [DE/DE]; Marktplatz 12, 76337 Waldbronn (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: CONTROLLING SAMPLE LOADING OF A SPECIMEN



(57) Abstract: A sample loading device for loading and injecting a sample of a specimen is provided. The device comprises an injection channel (I) having a sample injection spot (INJ), the injection channel (I) adopted for feeding a fluid comprising a specimen. It further comprises an injector (Uinj, UIN) for injecting the specimen into the fluid along the injection channel (I) and a separation device (S, SG, Sep+, Sep-) adopted for separating a sample from the specimen at the sample injection spot (INJ). Furthermore it comprises a control unit (RD) adopted for controlling the separation device (S, SG, Sep+, Sep-) in response to a detected physical parameter of the fluid.